SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Recombinant Rabbit Anti-PTGER2 Monoclonal Antibody

Catalog Number: SLA1187M

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Clone No.:	2F16
GeneID:	5732
SWISS:	P43116
Target:	PTGER2
Immunogen:	A synthesized peptide derived from human PTGER2
Purification:	affinity purified by Protein A
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) Not yet tested in other applications. Optimal working dilutions must be determined by the end user.
Reactivity:	Human,Mouse,Rat
Predicted MW.:	40 kDa
Subcellular Location:	N/A
Background:	Prostaglandins are produced by the metabolism of arachidonic acid. Prostaglandin E2 is one of the five physiologically significant prostanoids known. Its wide spectrum of physiologic and pharmacologic effects in various tissues is mediated through binding to the Prostaglandin E2 receptors (EP1, EP2, EP3 & EP4). These include effects on the immune, endocrine, cardiovascular, renal and reproductive systems as well as smooth muscle. It is also one of the most abundant of the prostanoid family in the brain where it plays an important role in many neural functions, particularly in newborn babies, and as a mediator of inflammation. Prostaglandin E2 signals through a family of G-protein coupled receptors known as EP receptors.

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	There are 4 subtypes of EP receptors, known as EP1, EP2, EP3 and EP4. EP2 receptors are 358 amino acid proteins with a short third intracellular loop. EP2 receptors stimulate adenylyl cyclase by their coupling to Gs and do not undergo Prostaglandin E2 induced internalization. The EP2 receptors is involved with the contration and relaxation of smooth muscle tissue. These receptors are mainly localized in lung and placental tissues and in smooth muscle.

[VALIDATION IMAGES]

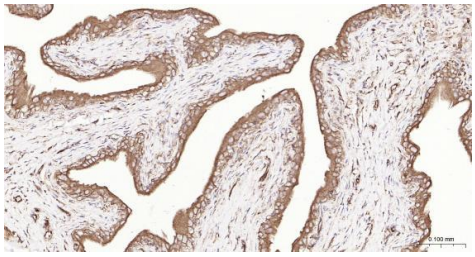


Figure 1. Paraformaldehyde-fixed, paraffin embedded Rat bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

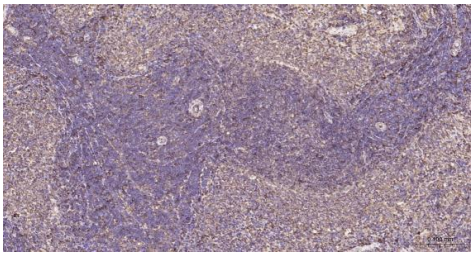


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

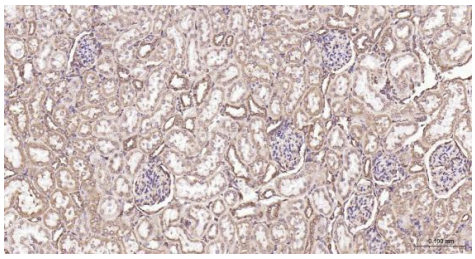


Figure 3. Paraformaldehyde-fixed, paraffin embedded Rat kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

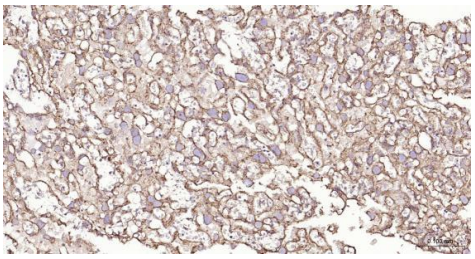


Figure 4. Paraformaldehyde-fixed, paraffin embedded Rat placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

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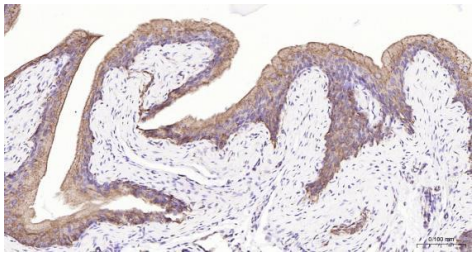


Figure 5. Paraformaldehyde-fixed, paraffin embedded Mouse bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

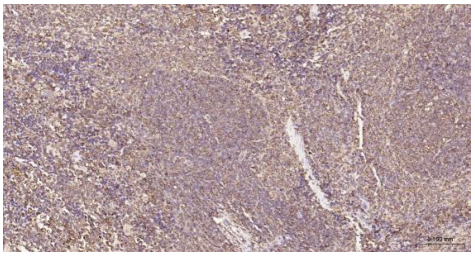


Figure 6. Paraformaldehyde-fixed, paraffin embedded Mouse spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

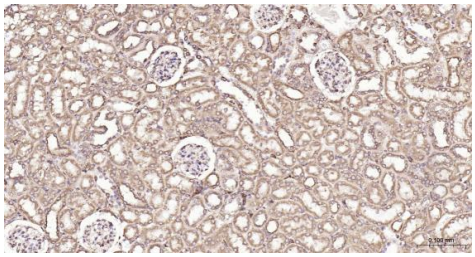


Figure 7. Paraformaldehyde-fixed, paraffin embedded Mouse kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

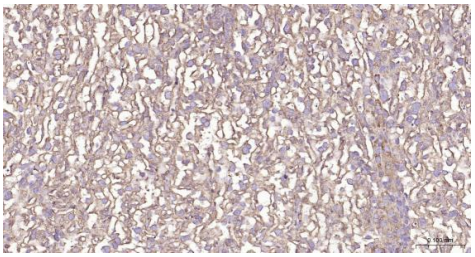


Figure 8. Paraformaldehyde-fixed, paraffin embedded Mouse placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

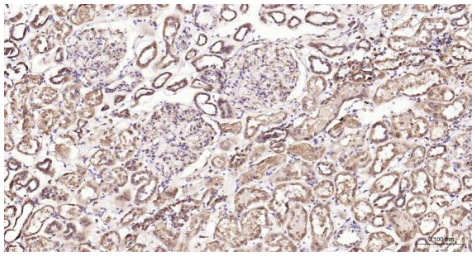


Figure 9. Paraformaldehyde-fixed, paraffin embedded Human kidney; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

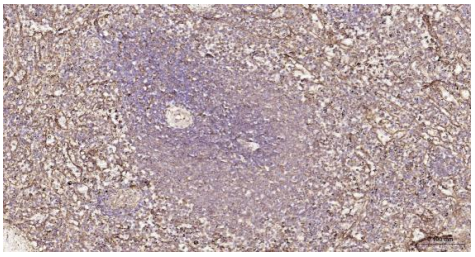


Figure 10. Paraformaldehyde-fixed, paraffin embedded Human spleen; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

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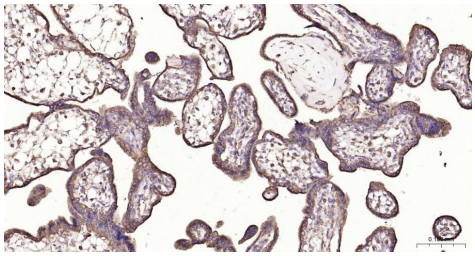


Figure 11. Paraformaldehyde-fixed, paraffin embedded Human placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with PTGER2 Monoclonal Antibody, Unconjugated(SLA1187M) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit(Rabbit, SP-0023) and DAB (C-0010) staining

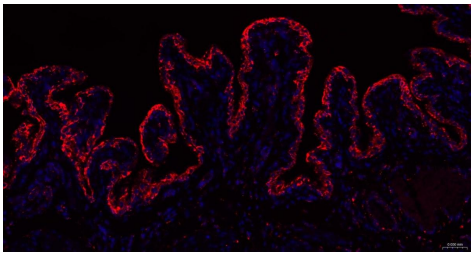


Figure 12. Paraformaldehyde-fixed, paraffin embedded Rat bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (SLA1187M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

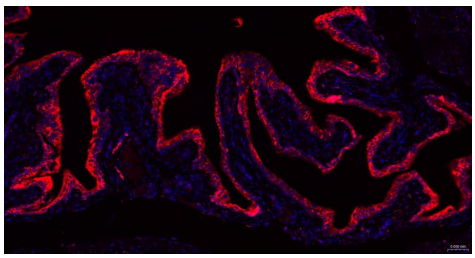


Figure 13. Paraformaldehyde-fixed, paraffin embedded Mouse bladder; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (SLA1187M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

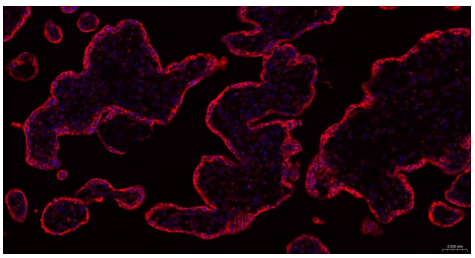


Figure 14. Paraformaldehyde-fixed, paraffin embedded human placenta; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; The section was incubated with PTGER2 Monoclonal Antibody, Unconjugated (SLA1187M) at 1:200 overnight at 4°C. Followed by conjugated Goat Anti-Ratbbit IgG antibody (red, SL0295G-BF594), DAPI (blue, C02-04002) was used to stain the cell nuclei

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